



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Kie Y. Ahn et al.

Examiner:

Douglas M. Menz

Serial No.:

10/789,044

Group Art Unit:

2891

Filed:

February 27, 2004

Docket:

1303.070US2

Title:

LANTHANIDE DOPED TIOX DIELECTRIC FILMS

INFORMATION DISCLOSURE STATEMENT

MS RCE Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with 37 C.F.R. §§ 1.97 et. seq., the enclosed materials are brought to the attention of the Examiner for consideration in connection with the above-identified patent application. Applicants respectfully request that this Information Disclosure Statement be entered and the documents listed on the attached Form 1449 be considered by the Examiner and made of record. Pursuant to the provisions of MPEP 609, Applicants request that a copy of the 1449 form, initialed as being considered by the Examiner, be returned to the Applicants with the next official communication.

Pursuant to 37 C.F.R. §1.97(b), it is believed that no fee or statement is required with the Information Disclosure Statement. However, the Commissioner is hereby authorized to charge the required fees to Deposit Account No. 19-0743 in order to have this Information Disclosure Statement considered.

INFORMATION DISCLOSURE STATEMENT

Serial No :10/789,044

Filing Date: February 27, 2004

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Pursuant to 37 C.F.R. 1.98(a)(2), Applicant believes that copies of cited U.S. Patents and Published Applications, and Non-Published Applications identifiable by USPTO Serial Number, are no longer required to be provided to the Office. Notification of this change to this effect was provided in the United States Patent and Trademark Office OG Notices dated October 12, 2004 and October 19, 2004. Thus, Applicant has not included copies of any US Patents or US Patent Applications identifiable by serial number that may be cited with this submission. Should the Office require copies to be provided, Applicant respectfully requests that notice of such requirement be directed to Applicant's below-signed representative. Applicant acknowledges the requirement to submit copies of foreign patent documents and non-patent literature in accordance with 37 C.F.R. 1.98(a)(2).

The Examiner is invited to contact the Applicants' Representative at the below-listed telephone number if there are any questions regarding this communication.

Respectfully submitted,

KIE Y. AHN ET AL.

By their Representatives,

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CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: MS RCE, Commissioner for Patents, P.O. Box 1450, Alexendria, VA 22313-1450 on this _______ day of January 2007.

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Signature

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INFORMATION DISCLOSURE
TEMENT BY APPLICANT
Use as many sheets as necessary) Complete if Known 10/789,044 **Application Number** February 27, 2004 Filing Date Ahn, Kie **First Named Inventor** 2891 **Group Art Unit** Menz, Douglas **Examiner Name** Attorney Docket No: 1303.070US2 Sheet 1 of 2

US PATENT DOCUMENTS					
Examiner Initial *	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Filing Date If Appropriate	
	US-20010002280A1	05/31/2001	Sneh, Ofer	12/22/2000	
	US-20010024387A1	09/27/2001	Raaijmakers, I, et al.	02/22/2001	
	US-20020089023A1	07/11/2002	Yu, Zhiyi , et al.	01/05/2001	
	US-20030228747A1	12/11/2003	Ahn, Kie Y., et al.	06/05/2002	
	US-20050145959A1	07/07/2005	Forbes, Leonard	03/08/2005	
	US-20050227442A1	10/13/2005	Ahn, K. Y., et al.	06/09/2005	
	US-20060023513A1	02/02/2006	Forbes, L., et al.	07/27/2004	
	US-20060028867A1	02/09/2006	Forbes, L., et al.	08/03/2004	
	US-20060028869A1	02/09/2006	Forbes, L., et al.	08/03/2004	
	US-20060043504A1	03/02/2006	Ahn, K. Y., et al.	08/31/2004	
	US-20060046505A1	03/02/2006	Ahn, K. Y., et al.	08/26/2004	
	US-20060046522A1	03/02/2006	Ahn, K. Y., et al.	08/31/2004	
	US-20060125030A1	06/15/2006	Ahn, K. Y., et al.	12/13/2004	
	US-20060128168A1	06/15/2006	Ahn, K. Y., et al.	12/13/2004	
	US-20060148180A1	07/06/2006	Ahn, K. Y., et al.	01/05/2005	
	US-20060176645A1	08/10/2006	Ahn, K. Y., et al.	02/08/2005	
	US-20060183272A1	08/17/2006	Ahn, K. Y., et al.	02/15/2005	
	US-20060189154A1	08/24/2006	Ahn, K. Y., et al.	02/23/2005	
-	US-20060223337A1	10/05/2006	Ahn, K. Y., et al.	03/29/2005	
	US-20060228868A1	10/12/2006	Ahn, K. Y., et al.	03/29/2005	
	US-20060237764A1	10/26/2006	Ahn, K. Y., et al.	06/29/2006	
	US-20060244082A1	11/02/2006	Ahn, K. Y., et al.	04/28/2005	
	US-20060244100A1	11/02/2006	Ahn, K. Y., et al.	04/28/2005	
	US-20060246741A1	11/02/2006	Ahn, K. Y., et al.	07/17/2006	
	US-20060252211A1	11/09/2006	Ahn, K. Y., et al.	07/17/2006	
	US-20060255470A1	11/16/2006	Ahn, K. Y., et al.	07/25/2006	
	US-20060261397A1	11/23/2006	Ahn, K. Y., et al.	07/26/2006	
	US-20060264064A1	11/23/2006	Ahn, K. Y., et al.	07/26/2006	
	US-20060270147A1	11/30/2006	Ahn, K. Y., et al.	05/27/2005	
	US-20060281330A1	12/14/2006	Ahn, K. Y., et al.	06/14/2005	
	US-5,879,459	03/09/1999	Gadgil, Prasad N., et al.	08/29/1997	
	US-6,617,639	09/09/2003	Wang, Z., et al.	06/21/2002	
	US-6,759,081	07/06/2004	Huganen, J., et al.	04/30/2002	
	US-6,770,923	08/03/2004	Nguyen, B.Y , et al.	03/15/2002	
	US-6,884,719	04/26/2005	Chang, J., et al.	03/19/2002	
	US-7,012,311	03/14/2006	Ohmi, T., et al.	05/29/2001	
	US-7,064,058	06/20/2006	Ahn, K. Y., et al.	01/30/2004	
	US-7,081,421	07/25/2006	Ahn, K. Y., et al.	08/26/2004	
	US-7,084,078	08/01/2006	Ahn, K. Y., et al.	08/29/2002	
	US-7,101,813	09/05/2006	Ahn, k. y., et al.	12/04/2002	

DATE CONSIDERED EXAMINER

PTO/SB/08A(10-01)
Approved for use through 10/31/2002. OMB 651-0031
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application Number	10/789,044	
(Use as many sheets as necessary)	Filing Date	February 27, 2004	
	First Named Inventor	Ahn, Kie	
	Group Art Unit	2891	
	Examiner Name	Menz, Douglas	
Sheet 2 of 2	Attorney Docket No: 1303.070US2		

US PATENT DOCUMENTS				
Examiner initial *	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Fillng Date If Appropriate
	US-7,129,553	10/31/2006	Ahn, K. Y., et al.	08/31/2004
	US-7,135,369	11/14/2006	Ahn, K. Y., et al.	03/31/2003
	US-7,135,421	11/14/2006	Ahn, K. Y., et al.	06/05/2002
	US-7,160,577	01/09/2007	Ahn, K. Y., et al.	05/02/2002

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Foreign Document No	Publication Date	Name of Patentee or Applicant of cited Document	T²		

	OTHE	R DOCUMENTS NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
		AHN, KIE Y., "COBALT TITANIUM OXIDE DIELECTRIC FILMS", U.S.	
		Application Serial No. 11/216,958, filed August 31, 2005	<u> </u>
		AHN, KIE Y., "GALLIUM LANTHANIDE OXIDE FILMS", U.S. Application Serial	
		No. 11/329,025 filed January 10, 2006	
		AHN, KIE Y., et al., "LANTHANIDE YTTRIUM ALUMINUM OXIDE DIELECTRIC	
		FILMS", U.S. Application Serial No. 11/297,567, filed December 8, 2005	l
		AHN, KIE Y., "LANTHANUM ALUMINUM OXYNITRIDE DIELECTRIC FILMS",	
		U.S. Application Serial No. 11/216,474, filed August 31, 2005	
		AHN, KIE Y., et al., "MAGNESIUM TITANIUM OXIDE FILMS", U.S. Application	
		Serial No. 11/189,075, filed July 25, 2005	
	•	AHN, KIE Y., "ZIRCONIUM-DOPED GADOLINIUM OXIDE FILMS", U.S.	
		Application Serial No. 11/215,578, filed August 29, 2005	<u> </u>
		GEALY, DANIEL F., et al., "GRADED DIELECTRIC LAYERS", US Application	
		Serial No 11/216,542, filed August 30, 2005	ļ
		KRAUS, BRENDA, et al., "CONDUCTIVE NANOPARTICLES", U.S. Application	
		Serial No. 11/197184, filed 8/4/2005	L

EXAMINER DATE CONSIDERED